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(71) 出願人 (米国を除く全ての指定国について): タカラバイオ株式会社 (TAKARA BIO INC.) [JP/JP]; 〒520-2193 滋賀県 大津市 瀬田三丁目 4 番 1 号 Shiga (JP).

(72) 発明者; および  
(75) 発明者/出願人 (米国についてのみ): 酒井 武 (SAKAI,Takeshi) [JP/JP]; 〒525-0072 滋賀県 草津市 笠山 4 丁目 9-11 Shiga (JP). 石塚 久美子 (ISHIZUKA,Kumiko) [JP/JP]; 〒036-8171 青森県 弘前市 取上 4 丁目 8-60 Aomori (JP). 加藤 郁之進 (KATO,Ikunoshin) [JP/JP]; 〒611-0028 京都府 宇治市 南陵町 1-1-150 Kyoto (JP).

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添付公開書類:  
— 国際調査報告書

2 文字コード及び他の略語については、定期発行される各 PCT ガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。

A1

WO 2004/001031

(54) Title: ENZYME FOR DECOMPOSITION OF SULFATED FUCAN DERIVED FROM SEA CUCUMBER

(54) 発明の名称: ナマコ由来硫酸化フカン分解酵素

(57) Abstract: Sulfated fucan lyase capable of decomposing sulfated fucan derived from sea cucumber; a process for producing the enzyme; a low molecular compound obtained by causing the enzyme to act on sulfated fucan; a process for producing the same; and an activating factor for sulfated fucan lyase.

(57) 要約: ナマコ由来硫酸化フカンを分解する硫酸化フカン分解酵素、該酵素の製造方法、及び硫酸化フカンに該酵素を作用させて得られる低分子化物及びその製造方法、ならびに硫酸化フカン分解酵素の活性化因子。

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/07838

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl' C12N9/44, C12N9/16, C12N19/04, C08B37/00//C12N15/12

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl' C12N9/44, C12N9/16, C12N19/04, C08B37/00, C12N15/12

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

JSTPlus (JOIS), BIOSIS (DIALOG), WPI (DIALOG)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	Pereira M.S. et al., Structure and anticoagulant activity of sulfated fucans. Comparison between the regular, repetitive, and linear fucans from echinoderms with the more heterogeneous and branched polymers from brown algae, J.Biol.Chem., 1999, Vol.274, No.12, pages 7656-67	<u>7,10</u> 1-6,8-9
X A	WO 01/081560 A1 (Takara Shuzo Co., Ltd.), 01 November, 2001 (01.11.01), Full text & EP 1277834 A1	<u>7,10</u> 1-6,8-9
X A	WO 96/34004 A1 (Takara Shuzo Co., Ltd.), 31 October, 1996 (31.10.96), Full text & EP 870771 A1 & US 6277616 B1 & US 6379947 B2	<u>7,10</u> 1-6,8-9

 Further documents are listed in the continuation of Box C. See patent family annex.

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Date of the actual completion of the international search  
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Japanese Patent Office

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**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/JP03/07838

**C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	Takeshi SAKAI et al., "Namako Yurai Ryusan-ka α-L-fucan o Bunkai suru Kaiyo Saikin Yurai endo-α- L-fucosidase oyobi sulfatase", Dai 23 kai The Japanese Society of Carbohydrate Research Nenkai Yoshishu, 2002 July, page 136, PII-55	1-10